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NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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NEWS LOGIN Welcome Banner and News Items
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NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 14:19:39 ON 18 OCT 2005

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 14:19:53 ON 18 OCT 2005
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 17 OCT 2005 HIGHEST RN 865410-76-0 DICTIONARY FILE UPDATES: 17 OCT 2005 HIGHEST RN 865410-76-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> s 574-93-6/rn L1 1 574-93-6/RN

=> d rid .

'RID' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN

SAM - Index Name, MF, and structure - no RN FIDE - All substance data, except sequence data

IDE - FIDE, but only 50 names SQIDE - IDE, plus sequence data

SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used

SQD - Protein sequence data, includes RN

SQD3 - Same as SQD, but 3-letter amino acid codes are used SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties

PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract

APPS -- Application and Priority Information

BIB -- CA Accession Number, plus Bibliographic Data

CAN -- CA Accession Number

CBIB -- CA Accession Number, plus Bibliographic Data (compressed)

IND -- Index Data

IPC -- International Patent Classification

PATS -- PI, SO

STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels

IBIB -- BIB, indented, with text labels -

ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields. HELP FORMATS -- To see detailed descriptions of the predefined formats. ENTER DISPLAY FORMAT (IDE):rsd

#### L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

#### Ring System Data

Elemental	Elemental	Size of	Ring System	Ring	RID
Analysis	Sequence	the Rings	Formula	Identifier	Occurrence
EA	ES	SZ	RF	RID	Count
	+========+	-========	+=======+	+=== <b>=</b> =====	+=======
C4N-C4N-C4N-	NC4-NC4-NC4-	5-5-5-5-6-6-	C32N8	13560.6.4	1
C4N-C6-C6-C6-	NC4-C6-C6-C6-	6-6-16	<u> </u>		
C6-C8N8	C6-				
	NCNCNCNCNCNCN				•
	CNC		[		

=> s 23627-89-6/rn

L2 1 23627-89-6/RN

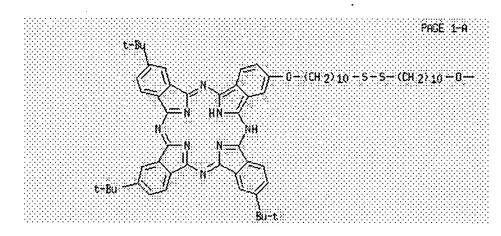
=> d rsd

#### L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

#### Ring System Data

Elemental Analysis EA	Elemental   Sequence   ES	Size of the Rings SZ	Ring System   Formula   RF	Ring  Identifier   RID	RID  Occurrence   Count
=======================================	+============	-==========	+========	}==== <b>=</b> ===+	+=======
C4N-C4N-C4N-	NC4-NC4-NC4-	5-5-5-6-6-	C48N8	14242.1.1	1
C4N-C6-C6-C6-	NC4-C6-C6-C6-	6-6-6-6-6-6-	ĺ		
C6-C6-C6-C6-	C6-C6-C6-C6-	16	ĺ		
C6-C8N8	C6-		ĺ		
	NCNCNCNCNCNCN		İ		
	CNC		ĺ		l. ·

=> s 2 13560.6.4/rid 8454941 2/RID.CNT 1822 13560.6.4/RID L3 34 2 13560.6.4/RID (2/RID.CNT (T) 13560.6.4/RID) => s 13 and nc=1 79137461 NC=1 33 L3 AND NC=1 L4 => s 14 and o/els 22771773 O/ELS L5 27 L4 AND O/ELS => d scan 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN L5 29H,31H-Phthalocyanine, 2,2'-[dithiobis(10,1-decanediyloxy)]bis[9,16,23tris(1,1-dimethylethyl) - (9CI) MF C108 H122 N16 O2 S2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L5 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 29H,31H-Phthalocyanine, 2,2'-[(2-ethyl-2-methyl-1,3 propanediyl)bis(oxy)]bis[9,10,16,17,23,24-hexakis(3,3-dimethyl-1-butynyl) (9CI)

MF C142 H142 N16 O2

$$t-Bu-C=C$$

$$V$$

$$V$$

$$V$$

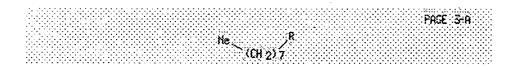
$$C=C-Bu-t$$

$$t-Bu-C=C$$

$$C=C-Bu-t$$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- L5 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
- IN Ethanedioic acid, bis[8-(4-methyl-8,11,15,18,22,25-hexaoctyl-29H,31H-phthalocyanin-1-yl)octyl] ester (9CI)
- MF C180 H262 N16 O4

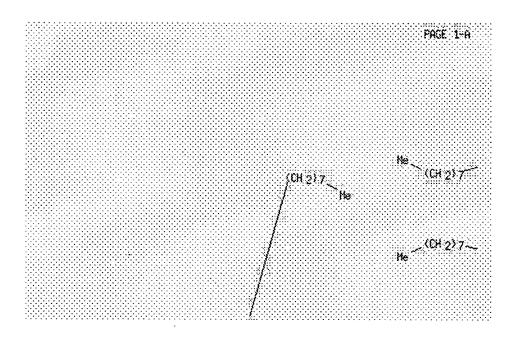


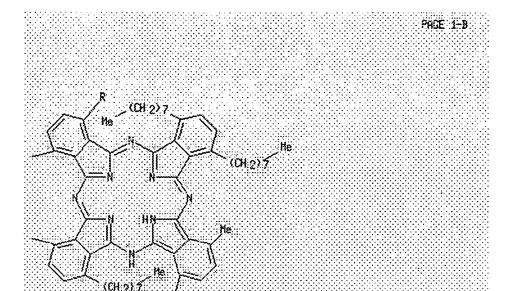
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

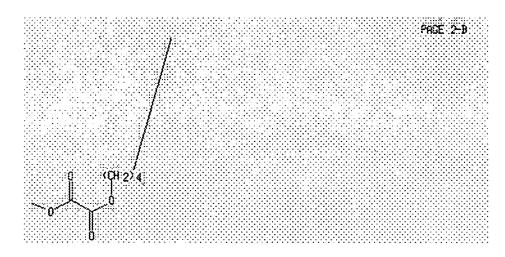
L5 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Ethanedioic acid, bis[4-(4-methyl-8,11,15,18,22,25-hexaoctyl-29H,31Hphthalocyanin-1-yl)butyl] ester (9CI)

MF C172 H246 N16 O4







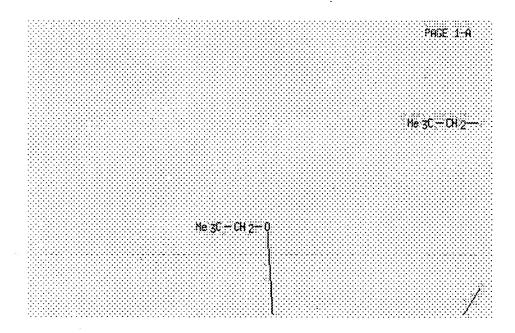
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L5 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 29H,31H-Phthalocyanine, 2,2'-(1,2-ethenediyl)bis[9,16,23-tris(2,2-

dimethylpropoxy)-, (E)- (9CI)

MF C96 H96 N16 O6



PAGE 2-A

$$\begin{array}{c}
 & \downarrow \\
 & \downarrow$$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L5 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 29H,31H-Phthalocyanine, 2,2'-(1,2-ethynediyl)bis[9,16,23-tris(2,2-dimethylpropoxy)- (9CI)

MF C96 H94 N16 O6

$$\operatorname{Ne}_3\mathrm{C}-\operatorname{CH}_2-\mathrm{Q} \qquad \qquad \mathrm{C}==\mathrm{C}$$
 
$$\operatorname{Ne}_3\mathrm{C}-\operatorname{CH}_2-\mathrm{Q} \qquad \qquad \operatorname{He}_3\mathrm{C}-\operatorname{CH}_2-\mathrm{Q}$$
 
$$\operatorname{He}_3\mathrm{C}-\operatorname{CH}_2-\mathrm{Q}$$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L5 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 29H,31H-Phthalocyanine, 2,9,16-tris(2,2-dimethylpropoxy)-23-[2-methyl-2[(29H,31H-phthalocyanin-2-yloxy)methyl]butoxy]- (9CI)

MF C85 H76 N16 O5

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- L5 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
- IN 29H,31H-Phthalocyanine, 2,2'-(1,8-anthracenediyl)bis[9,16,23-tris(2,2-dimethylpropoxy)- (9CI)
- MF C108 H102 N16 -06

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- L5 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
- IN 2,2'-Bi-29H,31H-phthalocyanine, 9,9',16,16',23,23'-hexakis(2,2-dimethylpropoxy) (9CI)
- MF C94 H94 N16 O6

$$\operatorname{He}\operatorname{3C-CH}\operatorname{2-O} + \operatorname{He}\operatorname{3C-CH}\operatorname{2-Ch}\operatorname{2-Ch}\operatorname{3}.$$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- L5 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
- IN 29H,31H-Phthalocyanine, 2,2'-oxybis[9,16,23-tris(2,2-dimethylpropoxy)-

(9CI) MF **C94 H94 N16 O7** 

$$\operatorname{He}\operatorname{3C}=\operatorname{CH}\operatorname{2}=0$$
 
$$\operatorname{He}\operatorname{3C}=\operatorname{CH}\operatorname{2}=0$$
 
$$\operatorname{He}\operatorname{3C}=\operatorname{CH}\operatorname{2}=0$$

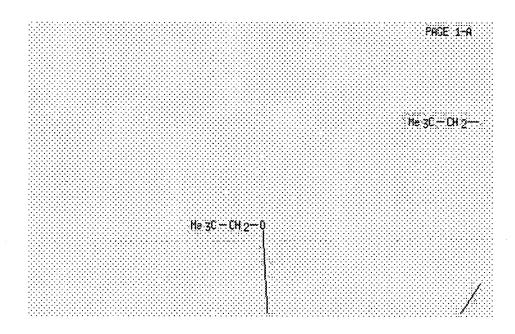
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L5 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 29H,31H-Phthalocyanine, 2,2'-(1,2-ethanediyl)bis[9,16,23-tris(2,2-

dimethylpropoxy) - (9CI) MF C96 H98 N16 O6



#### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1) end

=> s 19717-79-4/rn L6 1 19717-79-4/RN

=> d rsd

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

Ring System Data

Elemental Analysis EA	Elemental   Sequence   ES	Size of   the Rings   SZ	RF	Identifier RID	Count
C4N-C4N-C4N-	NC4-NC4-NC4-   NC4-GaNCNCN-   GaNCNCN-   GaNCNCN-	5-5-5-5-6-6-	•	13605.39.1	•

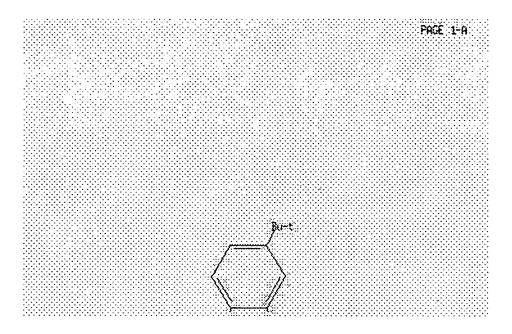
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C2GaN3-C6-C6-|GaNCNCN-C6-|
C6-C6 | C6-C6-C6 |
=> s 16903-42-7/rn
L7
         1 16903-42-7/RN
=> d rsd
L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
Ring System Data
 Elemental | Elemental | Size of |Ring System| Ring | RID
 Analysis | Sequence | the Rings | Formula | Identifier | Occurrence
          ES SZ RF RID Count
C4N-C4N-C4N- | NC4-NC4-NC4-| 5-5-5-6-6-| C32N8Ti
                                           13605.79.1 1
C4N-C2N3Ti- | NC4-NTiNCNC- | 6-6-6-6-6 |
C2N3Ti- NTINCNC-
C2N3Ti-
          NTINCNC-
C2N3Ti-C6-C6-|NTiNCNC-C6-
C6-C6 | C6-C6-C6
=> s 2 13605/rid
     8454941 2/RID.CNT
       24498 13605/RID
L8
         598 2 13605/RID
               (2/RID.CNT (T) 13605/RID)
=> s 18 and o/els
     22771773 O/ELS
        476 L8 AND O/ELS
T.9.
=> d scan
L9
    476 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
    Silicate(2-), µ-oxodioxobis(29H,31H-phthalocyaninato(2-)-
    KN29, KN30, KN31, KN32] di-, dipotassium (9CI)
MF
    C64 H32 N16 O3 Si2 . 2 K
    CCS
CI
STRUCTURE DIAGRAM IS NOT AVAILABLE
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).
    476 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
L9
    dimethylethyl)dimethylsilyl]oxy]methyl]-3,9-dodecadiene-1,5,7,11-tetrayne-
    1,12-diyl]bis[9,16,23-tris(1,1-dimethylethyl)-29H,31H-phthalocyaninato-
    KN29, KN30, KN31, KN32]](4-)]]di-(9CI)
```

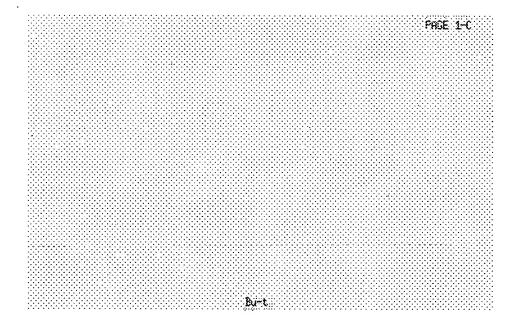
MF

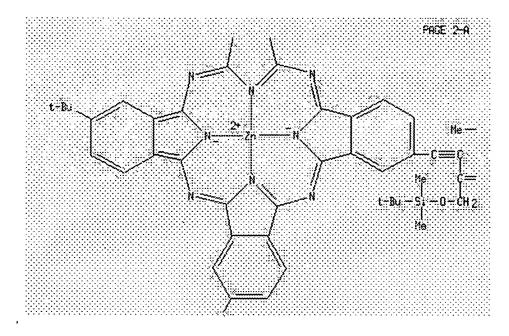
CI

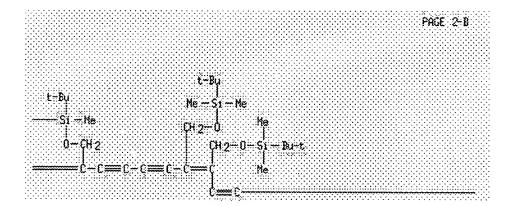
CCS

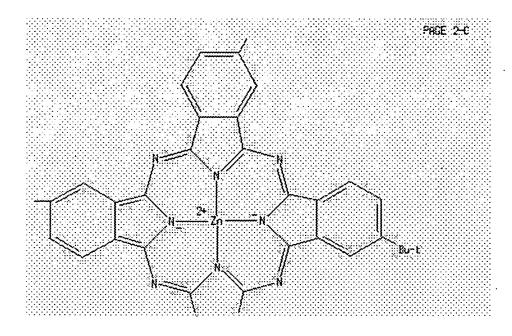
C128 H146 N16 O4 Si4 Zn2



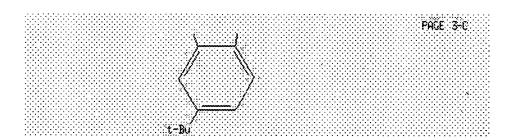












HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

- L9 476 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
- IN Iron,  $\mu$ -oxobis[2,9,16,23-tetraethyl-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]di- (9CI)
- MF C80 H64 Fe2 N16 O
- CI CCS

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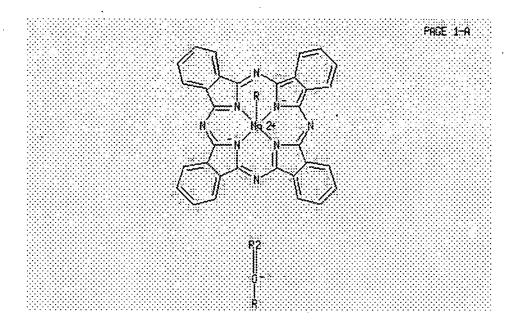
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

- L9 476 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
- IN Silicon, hydroxy-µ-oxobis[29H,31H-tetrabenzo[b,g,1,q]porphinato(2-)N29,N30,N31,N32](trihexyl orthosilicato-0''')di- (9CI)
- MF C90 H80 N8 O6 S13
- CI . CCS

#### STRUCTURE DIAGRAM IS NOT AVAILABLE

```
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).
     476 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN
     Iron, μ-methanetetraylbis (29H, 31H-phthalocyaninato (2-)-
     N29, N30, N31, N32]bis(2-propanone)di- (9CI)
     C71 H44 Fe2 N16 O2
 STRUCTURE DIAGRAM IS NOT AVAILABLE
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).
                   REGISTRY COPYRIGHT 2005 ACS on STN
L9
     476 ANSWERS
     Iron, μ-oxobis [N, N', N'', N'''-tetradodecyl-29H, 31H-phthalocyanine-
     C, C, C, C-tetrasulfonamidato(2-)-N29, N30, N31, N32]di-(9CI)
     C160 H232 Fe2 N24 O17 S8
     CCS, IDS
 STRUCTURE DIAGRAM IS NOT AVAILABLE
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1) end
=> d his
     (FILE 'HOME' ENTERED AT 14:19:39 ON 18 OCT 2005)
     FILE 'REGISTRY' ENTERED AT 14:19:53 ON 18 OCT 2005
L1
              1 S 574-93-6/RN
              1 S 23627-89-6/RN
L2
L3
             34 S 2 13560.6.4/RID
             33 S L3 AND NC=1
L4
L5
             27 S L4 AND O/ELS
L6
              1 S 19717-79-4/RN
              1 S 16903-42-7/RN
L7
L8
            598 S 2 13605/RID
            476 S L8 AND O/ELS
1.9
=> s 19 and nc=1
      79137461 NC=1
L10
          398 L9 AND NC=1
=> s 110 and oxobis
         14642 OXOBIS
          159 L10 AND OXOBIS
L11
=> s 110 and oxo not 111
       4287424 OXO
            63 L10 AND OXO NOT L11
L12
=> d scan
L12 63 ANSWERS
                 REGISTRY COPYRIGHT 2005 ACS on STN
     Molybdenum (1+), \mu-oxo [29H, 31H-phthalocyaninato (2-)-
     KN29, KN30, KN31, KN32] [[29H, 31H-phthalocyaninato(2-)-
     KN29, KN30, KN31, KN32] gallium] - (9CI)
MF
     C64 H32 Ga Mo N16 O
     CCS, COM
 STRUCTURE DIAGRAM IS NOT AVAILABLE
```

```
L12 63 ANSWERS
                  REGISTRY COPYRIGHT 2005 ACS on STN
IN
     Ruthenium(2+), bis[(4-methylpyridine)[29H,31H-phthalocyaninato(2-)-
     kN29, kN30, kN31, kN32] iron] di-\mu-oxo[5,10,15,20-
     tetrakis(4-methoxyphenyl)-21H,23H-porphinato(2-)-
     KN21, KN22, KN23, KN24] - (9CI)
MF
     C124 H82 Fe2 N22 O6 Ru
CI
     CCS
 STRUCTURE DIAGRAM IS NOT AVAILABLE
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).
L12 63 ANSWERS
                   REGISTRY COPYRIGHT 2005 ACS on STN
IN
     Silicate (1-), dimethylbis [2,3,9,10,16,17,23,24-octapentyl-29H,31H-
     phthalocyaninato (2-) - \kappaN29, \kappaN30, \kappaN31, \kappaN32] -\mu-
     oxodi- (9CI)
     C146 H198 N16 O Si2
MF
CI
 STRUCTURE DIAGRAM IS NOT AVAILABLE
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).
L12 63 ANSWERS
                 REGISTRY COPYRIGHT 2005 ACS on STN
     Iron, bis(1-methyl-1H-imidazole-KN3)bis[1,4,8,11,15,18,22,25-
     octakis(trifluoromethyl)-29H, 31H-phthalocyaninato(2-)-
     kN29, kN30, kN31, kN32]-\mu-oxodi- (9CI)
     C88 H28 F48 Fe2 N20 O
MF
CI
     CCS
 STRUCTURE DIAGRAM IS NOT AVAILABLE
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).
L12 63 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
     Indium, \mu-oxo[[29H,31H-phthalocyaninato(2-)-
     N29,N30,N31,N32] aluminum [2,9,16,23-tetrakis(1,1-dimethylethyl)-29H,31H-
     tetrabenzo[b,g,l,q]porphinato(2-)-N29,N30,N31,N32]- (9CI)
MF
     C84 H68 Al In N12 O
CI
     CCS
 STRUCTURE DIAGRAM IS NOT AVAILABLE
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).
                 REGISTRY COPYRIGHT 2005 ACS on STN
L12 63 ANSWERS
     Magnesate (1-), bis [29H, 31H-phthalocyaninato (2-)-N29, N30, N31, N32] [\mu-
     (superoxido-0:0')]di- (9CI)
MF
     C64 H32 Mg2 N16 O2
CI
     CCS
```



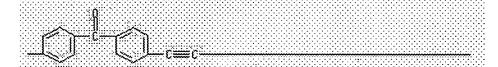
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L12 63 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

MF C129 H62 F72 N16 O27 V2

CI CCS

PAGE 1-A



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

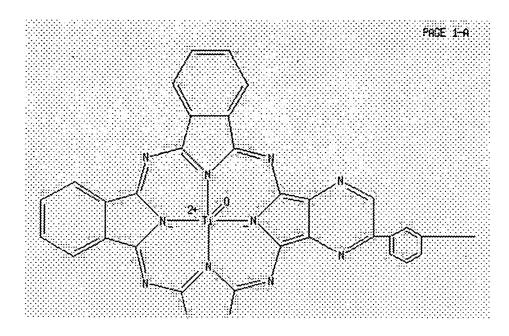
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

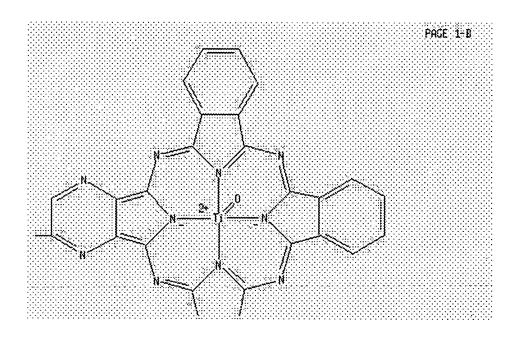
- L12 63 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

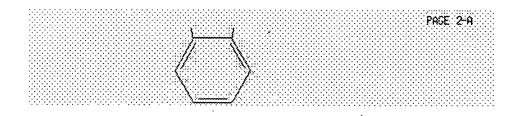
  IN Ruthenium, [(4-methylpyridine)bis[29H,31H-phthalocyaninato(2-)KN29,KN30,KN31,KN32](triethyl phosphiteKP)diiron]di-µ-oxo[5,10,15,20-tetrakis(4-methoxyphenyl)-21H,23Hporphinato(2-)-KN21,KN22,KN23,KN24]- (9CI)
  - MF C124 H90 Fe2 N21 O9 P Ru
  - CI CCS

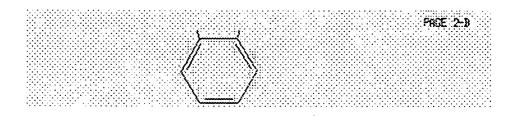
## STRUCTURE DIAGRAM IS NOT AVAILABLE

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HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).
L12 63 ANSWERS
                 REGISTRY COPYRIGHT 2005 ACS on STN
     Silicon, bis (2-mercaptoethanolato-KO) bis [2,3,9,10,16,17,23,24-
     octapentyl-29H, 31H-phthalocyaninato(2-)-KN29, KN30, KN31,.
     kappa.N32]-\mu-oxodi- (9CI)
MF
     C148 H202 N16 O3 S2 Si2
CI
 STRUCTURE DIAGRAM IS NOT AVAILABLE
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).
L12 63 ANSWERS
                 REGISTRY COPYRIGHT 2005 ACS on STN
     Silicon, bis ((1,1-dimethylethyl)dimethylsilanolato]bis (2,3,9,10,16,17
     ,23,24-octaoctyl-29H,31H-phthalocyaninato(2-)-
     KN29, KN30, KN31, KN32]-μ-oxodi-, stereoisomer
     (9CI)
     C204 H318 N16 O3 Si4
MF
CI
     CCS
 STRUCTURE DIAGRAM IS NOT AVAILABLE
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).
                 REGISTRY COPYRIGHT 2005 ACS on STN
L12 63 ANSWERS
     Iron, bis[2,3,9,10,16,17,23,24-octakis(pentyloxy)-29H,31H-
     phthalocyaninato(2-)-N29,N30,N31,N32]-\mu-oxodi- (9CI)
     C144 H192 Fe2 N16 O17
MF
CI
     CCS
 STRUCTURE DIAGRAM IS NOT AVAILABLE
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).
L12 63 ANSWERS
                 REGISTRY COPYRIGHT 2005 ACS on STN
     Titanium(1+), \mu-oxo[[29H,31H-phthalocyaninato(2-)-
     KN29, KN30, KN31, KN32] gallium] [C,C,C,C-tetrakis(1,1-
     dimethylethyl) -29H, 31H-phthalocyaninato (2-) -KN29, KN30, KN
     31, KN32] - (9CI)
MF
     C80 H64 Ga N16 O Ti
CI
     CCS, IDS, COM
STRUCTURE DIAGRAM IS NOT AVAILABLE
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).
                  REGISTRY COPYRIGHT 2005 ACS on STN
L12 63 ANSWERS
     Titanium, dioxo[\mu-[[2,2'-(1,3-phenylene)bis[29H,31H-
     tribenzo[b,g,l]pyrazino[2,3-q]porphyrazinato-KN29,KN30,K
     N31, \kappa N32]](4-)]]di-(9CI)
     C66 H30 N20 O2 Ti2
MF
CI
     CCS
```









HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L12 63 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Ruthenium, bis[(1-methyl-1H-imidazole-κN3)[29H,31H-phthalocyaninato(2-)-κN29,κN30κN31,κN32]iron]diμ-οxo[5,10,15,20-tetrakis(4-methoxyphenyl)-21H,23H-porphinato(2-)κN21,κN22,κN23,κN24]- (9CI)

MF C120 H80 Fe2 N24 O6 Ru

CI CCS

#### STRUCTURE DIAGRAM IS NOT AVAILABLE

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L12 63 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Silicon, dimethylbis[2,3,9,10,16,17,23,24-octakis(pentyloxy)-29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-μ-oxodi-(9CI)

MF C146 H198 N16 O17 Si2

CI CCS

#### STRUCTURE DIAGRAM IS NOT AVAILABLE

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L12 63 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Iron, bis[2,3,9,10,16,17,23,24-octakis[(2-ethylhexyl)oxy]-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-μ-oxodi- (9CI)

MF C192 H288 Fe2 N16 O17

CI CCS

#### STRUCTURE DIAGRAM IS NOT AVAILABLE

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L12 63 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Germanium, [(dimethyloctadecylsilanolato) [29H, 31H-phthalocyaninato (2-)-N29,N30,N31,N32]silicon]hydroxy-μ-οχο[29H, 31H-phthalocyaninato (2-)-N29,N30,N31,N32]- (9CI)

MF C84 H76 Ge N16 O3 S12

CI CCS

### STRUCTURE DIAGRAM IS NOT AVAILABLE

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1) end

=> d his

(FILE 'HOME' ENTERED AT 14:19:39 ON 18 OCT 2005)

FILE 'REGISTRY' ENTERED AT 14:19:53 ON 18 OCT 2005

L1 1 S 574-93-6/RN

L2 1 S 23627-89-6/RN

L3	34	S 2 13560.6.4/RID		
L4	33	S L3 AND NC=1		
L5	27	S L4 AND O/ELS		
L6	1	S 19717-79-4/RN		
L7	1	S 16903-42-7/RN		
P8	598	S 2 13605/RID		
L9	476	S L8 AND O/ELS	•	
L10	398	S L9 AND NC=1		
L11	159	S L10 AND OXOBIS		
L12	63	S L10 AND OXO NOT L11		
=> fil ca				
COST IN U.S	s. DOI	LARS	SINCE FILE	TOTAL
			ENTRY	SESSION
FULL ESTIMA	ATED C	COST	46.10	46.31

FILE 'CA' ENTERED AT 14:30:51 ON 18 OCT 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 13 Oct 2005 VOL 143 ISS 17 FILE LAST UPDATED: 13 Oct 2005 (20051013/ED)

Jpn. Kokai Tokkyo Koho, 57 pp.

CODEN: JKXXAF

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s 112
L13
=> s 113 and (electrophotog? or photoconduct? or photorecept?)
         65692 ELECTROPHOTOG?
         66593 PHOTOCONDUCT?
         34517 PHOTORECEPT?
             4 L13 AND (ELECTROPHOTOG? OR PHOTOCONDUCT? OR PHOTORECEPT?)
L14
=> d fbib ab hitstr 1-4
L14 ANSWER 1 OF 4 CA COPYRIGHT 2005 ACS on STN
Full Text
    136:270453 CA
     Electrophotographic photoreceptor containing tetraazaporphyrin
     derivative and charge-transporting polymer
IN
     Komai, Yuko; Nanba, Michihiko; Shimada, Tomoyuki; Shoshi, Masayuki;
     Tadokoro, Kaoru; Tanaka, Chiaki; Sasaki, Masaomi
PA
     Ricoh Co., Ltd., Japan
```

DT Patent LA Japanese FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 2002082460	A2	20020322	JP 2000-269095	20000905
				JP 2000-269095	20000905

OS MARPAT 136:270453

AB The title photoreceptor has light-sensitive layers contg. a tetraazaporphyrin deriv. mixt. and a charge-transporting compd. on an electroconductive support, wherein the tetraazaporphyrin deriv. mixt. contains metal bis(tetraazaporphyrin deriv.) I (R101 = H, alkyl, aryl; R102-105 = H, halo, alkyl, aryl, cycloalkyl, nitro, cyano; n = 1-2; M = metal, metal oxide, metal hydroxide, etc.) and a metal tetraazaporphyrin deriv. The photoreceptor shows the high sensitivity and the good wearing-resistance.

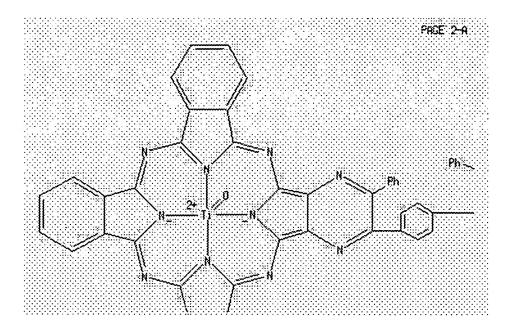
IT 405113-32-8P 405113-33-9P 405113-34-0P

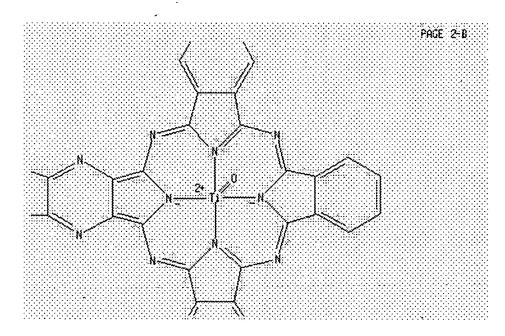
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(tetraazaporphyrin deriv. in electrophotog.

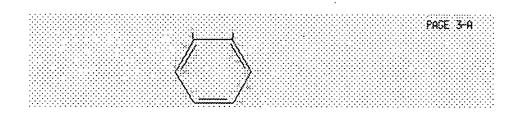
photoreceptor) RN 405113-32-8 CA

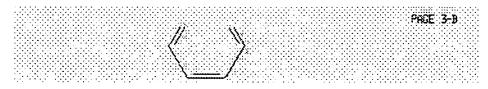
CN Titanium, dioxo[ $\mu$ -[[2,2'-(1,4-phenylene)bis[3-phenyl-29H,31H-tribenzo[b,g,1]pyrazino[2,3-q]porphyrazinato- $\kappa$ N29, $\kappa$ N30, $\kappa$ N31, $\kappa$ N32]](4-)]]di- (9CI) (CA INDEX NAME)

	PAGE	1-3
<i>/</i> ──\		



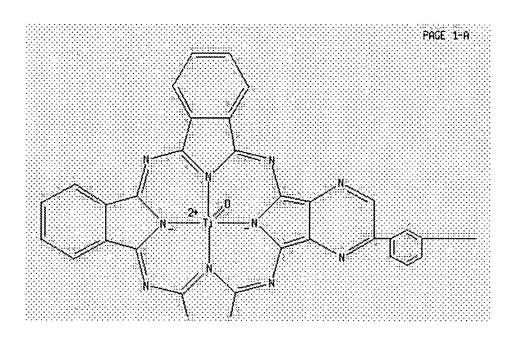


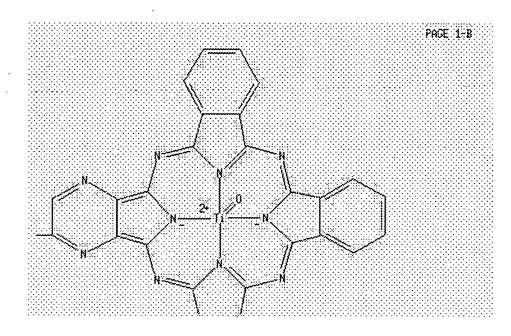


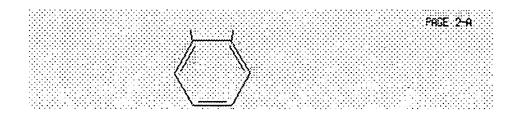


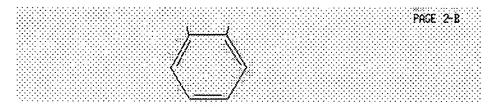
RN 405113-33-9 CA

CN Titanium, dioxo[ $\mu$ -[[2,2'-(1,3-phenylene)bis[29H,31H-tribenzo[b,g,1]pyrazino[2,3-q]porphyrazinato- $\kappa$ N29, $\kappa$ N31, $\kappa$ N32]](4-)]]di- (9CI) (CA INDEX NAME)

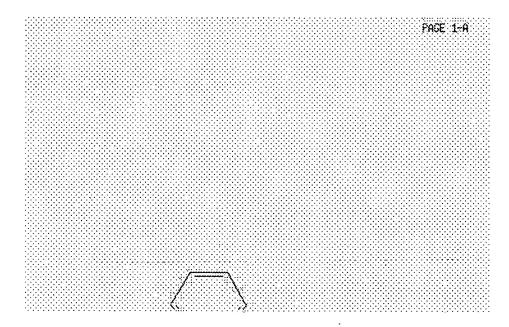






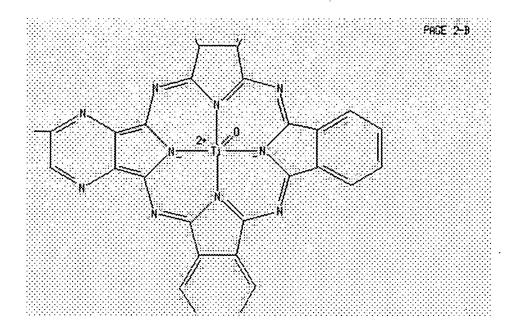


 $\begin{array}{lll} \text{RN} & 405113-34-0 & \text{CA} \\ \text{CN} & & \text{Titanium, dioxo} [\mu-\{[2,2'-(1,4-\text{phenylene})\text{bis}\{29\text{H},31\text{H-tribenzo}[b,g,1]\text{pyrazino}[2,3-q]\text{porphyrazinato-}\kappa\text{N29},\kappa\text{N30},\kappa \\ & & \text{N31},\kappa\text{N32}]\}(4-)]]di- (9\text{CI}) & & & \text{CA INDEX NAME}) \end{array}$ 











L14 ANSWER 2 OF 4 CA COPYRIGHT 2005 ACS on STN

Full Text

133:18773 CA AN

TI Oxoaluminum/gallium phthalocyanine dimers

Yamasaki, Yasuhiro; Takaki, Kenji; Kuroda, Kazuyoshi IN

PA Orient Chemical Industries, Ltd., Japan

Eur. Pat. Appl., 23 pp.

CODEN: EPXXDW

DT Patent

LΑ English

FAN.CNT 1

•	PATENT NO.					KIND DATE		APPLICATION NO.					DATE				
					-								_				
PI	EP	1004	634			A2		2000	0531	EP	1999-	1232	13		1	9991	125
	EP	1004	634			<b>A</b> 3		2002	0306								
	EP	1004	634			В1		2003	1008								
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, GI	R, IT,	LI,	LU,	NL,	SE,	MC,	PT,
			ΙE,	SI,	LT,	LV,	FI,	RO						•		•	• 1
•										JP	1998-	3357	29	P	. 1	9981	126
	US	6093	514			A		2000	0725	US	1999-	4446	97		1	9991	124
										JP	1998-	3357	29	P	. 1	9981	126
	JP	2000	2198	17		A2		2000	8080	JP	1999-	3341	28		1	9991:	125
										qT,	1998-	3357	29	20	. 1	9981	126

AB The  $\mu$ -oxoaluminum/gallium phthalocyanine dimers and their mixed crystals are suitable as a charge generating material for an org.

```
photoconductive material, such as an electrophotog. photoreceptor.
     Thus, hydrolyzing a mixt. of 0.01 mol chlorogallium phthalocyanine and
     0.01 mol. chloroaluminum phthalocyanine with conc. H2SO4 followed by
     dehydrating the resulting hydroxymetal phthalocyanine mixt. gave an
     μ-oxo-aluminum/gallium phthalocyanine dimer.
IT 256647-36-6P
     RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or
     engineered material use); PREP (Preparation); USES (Uses)
        (µ-oxoaluminum/gallium phthalocyanine dimers)
RN
     256647-36-6 CA
CN
     Gallium, \mu-oxo[29H,31H-phthalocyaninato(2-)-
     KN29, KN30, KN31, KN32 [{29H,31H-phthalocyaninato(2-)-
     KN29, KN30, KN31, KN32] aluminum] - (9CI) (CA INDEX
     NAME)
 STRUCTURE DIAGRAM IS NOT AVAILABLE
L14 ANSWER 3 OF 4 CA COPYRIGHT 2005 ACS on STN
Full Text
     132:144318 CA
AN
TI
     μ-Oxo-bridged type aluminum and gallium phthalocyanine dimer -
     Synthesis, polymorphs and its primary evaluation as an
     electrophotographic receptor
ΑU
     Yamasaki, Yasuhiro; Takaki, Kenji; Kuroda, Kazuyoshi
CS
     3rd R D Center, R D Department, Orient Chemical Industries, Ltd.,
     Neyagawa-shi, 572-8581, Japan
so
    Nippon Kagaku Kaishi (1999), (12), 841-845
     CODEN: NKAKB8; ISSN: 0369-4577
PB
    Nippon Kagakkai
DT
    Journal
LΑ
     Japanese
AB
     We already found and reported that the specific polymorphs of
     \mu-oxo-aluminum phthalocyanine dimer and \mu-oxo-gallium phthalocyanine
     dimer have fairly good characteristics as the electrophotog. receptor.
     In connection with our ongoing works on this field, we are interested in
     the synthesis of \mu-oxo-bridged dimers of diverse metal phthalocyanines
     for pursuing various charge generating materials in electrophotog.
     receptors. We report here the results of studies on the polymorphs of the
     titled phthalocyanine dimer, ie. \mu-oxo-bridged between aluminum and
     gallium phthalocyanine dimer, and their primary electrophotog. evaluation.
IT 256647-36-6P
     RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
        (synthesis of µ-oxo-bridged type aluminum and gallium phthalocyanine
        dimer)
RN
     256647-36-6 CA
CN
     Gallium, \mu-oxo[29H,31H-phthalocyaninato(2-)-
     κN29, κN30, κN31, κN32] [[29H, 31H-phthalocyaninato(2-)-
     KN29, KN30, KN31, KN32] aluminum] - (9CI) (CA INDEX
     NAME)
 STRUCTURE DIAGRAM IS NOT AVAILABLE
L14 ANSWER 4 OF 4 CA COPYRIGHT 2005 ACS on STN
Full Text
     120:148867 CA
AN
    High-photosensitivity electrophotographic photoreceptor
IN
    Tai, Seiji; Katayose, Mitsuo; Morishita, Yoshii
PA
    Hitachi Chemical Co., Ltd., Japan
    Jpn. Kokai Tokkyo Koho, 22 pp.
     CODEN: JKXXAF
DT
     Patent
LA
     Japanese
FAN.CNT 1
```

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI JP 04362653 A2 19921215 JP 1991-138909 19910611 JP 1991-138909 19910611

AB In the title electrophotog. photoreceptor comprising an org. photoconductive layer on an elec. conductive support, I [M = Al, Ga, In, Si, Ge, Sn; Al-8 = benzene ring, naphthalene ring, anthracene ring, N-contg. arom. ring; X = halo, R1, OR2, SR3, SiR4R5R6, SO2NR7R8, SO2R9, COR10, COOR11, CONHR12, NR13R14, R15OR16, NO2, SO3H, CN, NHCOR17; g, h, i, j, k, l, m, n = 0-8; Y1,2 = halo, OH, R18, OR19, OSiR2OR21R22; R1-22 = H, alkyl, cycloalkyl, aryl, halogenated alkyl, Si-contg. group] is utilized as a photoconductive substance in the photoconductive layer. The photoreceptor shows high photosensitivity to the long wavelength region and is suitable for use in a laser printer.

IT 151989-12-7

=>

RL: USES (Uses)

(charge-generating material, for electrophotog. photoreceptor)

RN 151989-12-7 CA

CN Silicon, μ-oxo[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32][C,C,C,Ctetrakis(trimethylsilyl)-29H,31H-phthalocyaninato(2-)N29,N30,N31,N32]bis(tripropylsilanolato)di- (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE